

No.

Apl. 26<sup>th</sup> 1893  
to

July 12<sup>th</sup> 1893.

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Hyd. 3240 to 3281

Dx 3477 to 3481.

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1+1=2 ✓

$$\begin{array}{r} 37 \\ 1 \\ \hline 333 \\ 2 \\ \hline 335 \end{array}$$

Hyd 3240.  
5: - 3477. } Next nos.

Large Mach. - - Sigbee  
Small - - Tanner.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *5-3477* Date *April 26<sup>th</sup> 1893*  
*Janner* Machine. — Reel.

Turns *77* Cor. + *3* Depth *80 fms* -

~~Shot or lead~~ *25 lbs.*

Bottom *ky - ?*

Bottom temperature *46.5*

No. of thermometer *52732* Cor. —

Corrected temperature *46.5*

Air *54°* Surface *51°* - Drift —

~~Trawl or dredge~~ *Rang Beam*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*9-13-45*  
*14-15*

*14-45*  
*9-14-20*

*0*

*77*

*100*

*200*

*300*

*400*

*500*

*600*

*700*

*800*

*900*

*1000*

*1100*

*1200*

*1300*

*1400*

*1500*

*1600*

*1700*

*1800*

*1900*

*2000*

*2100*

*2200*

*2300*

*2400*

*9-20-45*

*55-45*

*26-00*

*51-30*

*30-10*

*48-00*

*31-30 39-15*

*9-46-45*

*Pat. log read - 41.8 -*

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

### REMARKS:

Trawl not on bottom  
Nothing in it.

36-48-15-121° 59' 05"

No. *Hg* 3240 - Date *April 26-1893*  
*Tanner* Machine. — Reel.

Turns 256 Cor. + 10 Depth 266 -

~~Shot or lead~~ 25 lbs.

Bottom *Soft lead*

Bottom temperature *Best thermometer*

No. of thermometer 52732 Cor. —

Corrected temperature —

Air 58° Surface 54° Drift

Trawl or dredge *Tanner Intermediate* -

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9-57-40	03-15	0	10-11-15	
58-15	02-15	100	Experimented & readjusted.	
59-00	01-30	200		
10-00-15	10-00-30	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



# Tanner Intermediate -

Towed at a	2500	Messenger started
depth of 8 fms	2600	at
on dredge rope	2700	Struck at
at an angle	2800	
making <sup>depth</sup> at which	2900	
towed 15 fms	3000	
	3100	
Few Small	3200	Upper net
Crustaceans,	3300	had a
Numerous	3400	few Salpae.
Sagitta; &	3500	
many Salpae.	3600	
in lower	3700	
net. (closed.)	3800	
	3900	
	4000	

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300		560	14	
400		256	4	
500		304	10	
600			256	
700	Lost seven (7)		266	
800	turns pounding wire -			
900	Ther. #52732 and			
1000	one 26# lead -			

## REMARKS:

Cut off 147 fms - ~~broken wire~~ -  
 bad wire - Rove off new  
 Stray-line -

107.

36° 44' 45" - 121° 57'

No. 5-3478 - Date April 26-1893.

Tanner Machine. - Reel.

Turns 66 Cor. + 2 Depth 68 fms.

Shot or lead 26 lbs.

Bottom gy. S. M.

Bottom temperature

No. of thermometer 6 Cor.

Corrected temperature

Air 56° Surface 53° Drift

Trawl or dredge Large Beam

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11-10-00

11-30

0

11-24-00

55-00

10-30

11-10-40

100

28-15

49-45

100

30-30

11-45 10

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Experimented with Tanner

Intermediate Net

Put surface line - net over on port boom at 11:30 -

Salpas; Sagitta; & few

Small Crustaceans.

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50		400	7	
100		300	5	
200			2	
300			1	
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

- 2 Small stars; 1 pt. shells (6 sps).  
 3 spp. 2 hourders; few small shrimp  
 1 Red Rock fish. 3 Naked Mollusks.  
 5 Shales ( Raja trivulgaris )  
 2 Sea Urchins; few Worms.  
 1 Holothurians - 1 1/2 pt. Ophiurians.  
 6 Venus; small Hydroids; Bryozoans  
 1 Hydrozoa.

No. *3479* - Date *April 27 - 1901*  
*Tanner* Machine. — Reel.

Turns *270* Cor. + *6* Depth *276 fms*

Shot or lead *25*

Bottom *gn. M. fm. S.*

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air *52* Surface *50* Drift

Trawl or dredge *Beam trawl*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>24-15</i>	<i>42-10</i>	0	<i>6-55-11</i>	<i>20-25</i>
	<i>41-15</i>	100	<i>7-01-30</i>	<i>17-25</i>
		200		
	<i>40-50</i>	300	<i>09-50</i>	<i>11-50</i>
		400	<i>13-00</i>	<i>08-20</i>
		500	<i>17-30</i>	<i>05-30</i>
		600	<i>20-45</i>	<i>01-15</i>
		700	<i>24-15</i>	
		800	<i>28-45</i>	<i>07-45</i>
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Bounding (H. & W. T. Co.)  
 S. Tanner

27.4  
 58.7

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	40.5	1		
50	39.2	1		
100	38.6	1		
200		2		
300		2		
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

1/2 doz. King Fish; 13 Flounders (3 sps.)  
 1 Red Rock Fish (1 sp.) 1 Scorpion;  
 1 Chub; 4 sps. Star fish;  
 1 ft. Horned Crab; few Squirrel Scars;  
 1/2 doz. Sea Urchins (1 sp.) 1 ft. Anemone;  
 1 small Salamander; 1/2 doz. few  
 Hermit crabs; 1 Sea Anemone.

37° 29' - 123° 01' 20"

No. *Hyd. 5241* Date *Apr. 27, 1895.*

*Sigsbee* Machine. *2* Reel. *Heavy*

Turns *278* Cor. + *23* Depth *301 fms.*

~~Shot or lead~~ *35 #*

Bottom *Soft green Mud*

Bottom temperature *41.8*

No. of thermometer *62-369* Cor. - *0.1*

Corrected temperature *41.7*

Air *54* Surface *53* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>30-55</i>	<i>39-</i>	0		
<i>31-45</i>	<i>37-45</i>	100		
<i>32-45</i>	<i>36-45</i>	200		
<i>33-45</i>	<i>35-45</i>	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Towed at depth of 120 fms on dredge rope at an angle of making depth at which towed 100 fms	2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000	Turner Lute 2 m. 8-17-35 16 - 5 52-2908-115 9-11-30 12 15	
Lower Bag Empty. Upper Bag: Small Scopolus few Small Crustaceans.			

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50		4820	203	
100		278	180	
200		4542	23	
300			278	
400			301	
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 2247 H. d. Date June 5<sup>th</sup> 1893.  
 Machine. #2 Reel. *Hand*  
 Turns 1929 Cor. + 135. Depth 2064  
 Shot or lead 60 lbs.  
 Bottom gy. oz.  
 Bottom temperature 35.0 -  
 No. of thermometer 66,663 - Cor. -0.4  
 Corrected temperature 34.6  
 Air Surface Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
15-30	2-00-00	0		
16-25	59-15	100		
17-20	58-15	200		
18-10	57-15	300		
19-10	56-15	400		
20-10	55-15	500		
21-05	54-20	600		
22-10	53-25	700		
23-15	52-35	800		
24-20	51-45	900		
25-30	50-50	1000		
26-35	49-50	1100		
27-40	48-50	1200		
28-50	47-50	1300		
29-00	46-50	1400		
30-15	45-30	1500		
31-25	44-15	1600		
32-40	43-00	1700		
33-05	41-30	1800		
34-25	40-00	1900		
35-55	39-45	1929		
		2000		
		2100		
		2200		
		2300		
		2400		



	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4870	225	1929
50		1929	68	135
100		2891	135	2064
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *3113 Hyd* Date *June 6 '02*  
*Tanner* Machine. Reel.  
 Turns *59* Cor. + *2* Depth *59 fms*  
 Shot or lead *25 lbs*  
 Bottom *Gy S s, sh*  
 Bottom temperature  
 No. of thermometer Cor.  
 Corrected temperature  
 Air Surface Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>PM. 0.01.20</i>	<i>03.20</i>	0		
<i>9.01.45</i>	<i>9.02</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		406 +	7	
50		347	5	
100		347	2	
200			5	
300			5.7	
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 1144 Hyd Date June 5 - 1873 -

Machine. — Reel.

Turns 84 Cor. + 3

Depth 87 fms.

Shot or lead 35 lb.

Bottom Soft M.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.00.00		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3245 Date June 15

Tanner Machine. — Reel.

Turns 58 Cor. + 2 Depth 60

Shot or lead 25 lbs.

Bottom Bn. M.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 47 Surface 44 Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

6 15

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

54° 56' 15" - 159° 01'

No.

Hyd.

Date

June 19-1892

Machine. — Reel.

Turns 47 Cor. + 1

Depth 48

Shot or lead 25 lb

Bottom gy. dk. S. &amp; P.

Bottom temperature —

No. of thermometer —

Cor. —

Corrected temperature —

Air 46 Surface 43 Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

54° 56' 30" - 159° 15' 20"

No. 3247 Hyd. Date June 19 - 1883 -  
Machine. Reel.

Turns 40 Cor. + Depth 41

Shot or lead 25 lbs.

Bottom gy. S. rky.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 46 Surface 43 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-28-50	8-30-50	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

54° 56' 45" - 159° 09'

No. 3248 Hy. Date June 19-1893  
Tanner Machine. Reel.

Turns 35 Cor. + 1 Depth 36

Shot or lead 25 lbs.

Bottom gy. S.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 46 Surface 43 Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-45-00	8-49-00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

54° 57' 45" - 159° 11'

No. 49 Hy - Date June 19 - 1893.  
Tanner Machine. - Reel.

Turns 37 Cor. + 1

Depth 38 fms.

Shot or lead 25 lbs.

Bottom gy. S.

Bottom temperature —

No. of thermometer —

Cor. —

Corrected temperature —

Air 46 Surface 43

Drift —

Trawl or dredge —

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

9-01-00

9-05-00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

54° 58' 45" - 159° 13' 45"

No. 3250 Hgt. Date June 19<sup>th</sup> 1893.  
 Tanner Machine. — Reel.

Turns 32 Cor. + 1 Depth 33 fms.

Shot or lead 25 lbs.

Bottom S. brk. Sh.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 46 Surface 43 Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9-16-00	7-20-00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

55° 01' 30" — 159° 16' 30"

No. 3251 Hg <sup>2</sup> Date June 19<sup>th</sup> 1893.  
Tanner Machine. Reel.

Turns 26 Cor. + 1 Depth 27 fms.

Shot or lead 25 lbs.

Bottom gy. S.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 46 Surface 43 Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9-52-00	9-55-00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

55° 02' 15" - 159° 19' 00"

No. 3252 *Fig. 4* Date *June 11<sup>th</sup> 1873*  
*Tanner* Machine. - Reel.

Turns 17 Cor. + — Depth 17 fms.

Shot or lead 25 lbs.

Bottom *fine gy. S.*

Bottom temperature

No. of thermometer — Cor. —

Corrected temperature —

Air 46 Surface 43 Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10-14-00	10-17-00	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

54° 04' N. 167° 55' W.

No. 2253 Hyd Date June 27 93  
Tanner Machine. Reel.

Turns 47 Cor. + 1 Depth 48

Shot or lead 25 lbs

Bottom S + G.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 48 Surface 46 Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

1658

7.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Contained and expended wire from <del>surface</del> wire from Summit Machine			
100				
200				
300				
400				
500	<hr/>			
600				
700	<hr/> Run by 576 fms.			
800				
900				
1000				

REMARKS:

new wire 576 fms.

507.

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## TURNS.

## DREDGE ROPE.

DOWN.

fms.

DOWN.

UP.

DOWN.	fms.	TURNS.	DOWN.	UP.
25.	25.	0	0.	
50.	550.	100	0.	
75.	75.	200	0.	
100.	1100.	300	11.	
25.	1126.	400	11.	
50.	151.	500	11.	
75.	1177.	600	12.	
200.	202.	700	12.	
25.	2228.	800	3.	
50.	253.	900	3.	
75.	2276.	1000	3.	
300.	304.	1100	4.	
25.	324.	1200	4.	
50.	355.	1300	5.	
75.	3386.	1400	5.	
400.	4406.	1500	6.	
25.	4432.	1600	7.	
50.	4458.	1700	8.	
75.	4484.	1800	9.	
500.	5460.	1900	10.	
25.	5536.	2000	11.	
50.	5562.	2100	12.	
75.	5588.	2200	13.	
585.	5596.	2300	13.	
		2400		



2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

51° 32' - 175° 52'

No. 3254 Date July 1 1893

Machine. Reel. 1141

Turns 645 Cor. + 52 Depth 697-

Shot or lead 35 lbs

Bottom Hard bottom. Hk sand

Bottom temperature 37

No. of thermometer 66663 Cor. -1.4

Corrected temperature 36.6

Air 43 Surface 48 Drift Nix

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

12-3	21-35	0
1-11	2-5	100
1-11	11-05	200
7-13	14-15	300
5-13	16-15	400
4-36	16-55	500
11-10	18-50	600
11-10	19-45	645
		700
		800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4820	203	
50		645	151	
100		4175	52	
200			645	
300			697	
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

117.5. 51°35'40" - 176°41'00"

No. 3255 Ag<sup>R</sup> Date July 1<sup>st</sup> 1885  
Tanner Machine. Reel.

Turns 60 Cor. + 2 Depth 62 fms.

Shot or lead 25 lbs.

Bottom cr<sup>gy</sup> S. Sh.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 47 Surface 48 Drift —

Trawl or dredge —

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

4-24-45  
25. 15

26 3  
4-25-30

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		41 20	1.55	
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

51° 35' 40" N. 176° 46' 15" W.

No. 3256 H. & L. Date July 1<sup>st</sup> 1893  
 Tanner Machine. Reel.

Turns 45 Cor. + 1 Depth 46 fms.

~~Shot~~ or lead 25 lbs.

Bottom crs. gy. S.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 48 Surface 41 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5-51-10	55-00	0		
1-30	5-54-00	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

51° 33' 30" N. 176° 50' 30" W.

No. 257 Hy. Date July 5<sup>th</sup> 1893.

Machine. — Reel.

Turns 57 Cor. + 2 Depth 57 fms.

Shot or lead 25 lbs.

Bottom Sh. (hard) -

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 50° Surface 47° Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9-47-30	49	0		
48-30	48-40	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*1743* 51° 32' 00" N. 176° 49' 00" W.

No. 3258 Hy<sup>d</sup> - Date *July 5 1873*  
 Tanner Machine. Reel.

Turns *75* Cor. + *3* Depth *78 fms*

~~Shot or~~ lead *25 lbs*

Bottom *gy. S. Sh.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *50°* Surface *77°* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10-06-30</i>	<i>10-00</i>	0		
<i>08-00</i>	<i>10-08-05</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Revised Edition*

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

176° 49' W.

No. 3359 Date July 5<sup>th</sup> 1872  
 Sigsbee Machine. Reel.

Turns 158 Cor. + 14 Depth 172 fms

Shot or lead 35 lbs.

Bottom gy. S. P.

Bottom temperature 39.8

No. of thermometer 66663 Cor. -0.4

Corrected temperature 39.4

Air 53 Surface 47 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11-23-00	23-00	0		
23-25	22-00	100		
23-30	11-24-15	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4850	203	
50		158	189	
100		4662	14	
200			157	
300			172	
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

51° 24' N. 176° 50' W.

507. F. K. H.

No. 3260 Hy 1 Date July 5 1891

Machine.

Reel. Heavy

Turns 374 Cor. + 34

Depth 428

Shot or lead 36 lbs.

Bottom gy S Sh.

Bottom temperature 39

No. of thermometer 66663

Cor. -0.4

Corrected temperature 38.6

Air 52 Surface 42

Drift S. 88° E. (about 60 ft)

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

2

0

50

100

100

200

150

300

200

400

250

500

300

600

350

700

400

800

450

900

500

1000

550

1100

600

1200

650

1300

700

1400

750

1500

800

1600

850

1700

900

1800

950

1900

1000

2000

1050

2100

1100

2200

1150

2300

1200

2400

1250

1300

1350

1400

1450

4427

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		0821		
50		32		
100		0827		
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3261 *Hy.* - Date*Sigsbee* Machine.Reel. *Hand*

Turns Cor. + 110

Depth *110*Shot or lead *35 lb*Bottom *bk. S. & bk. Sh.*Bottom temperature *30.70*No. of thermometer *66663*

Cor. - 0.4

Corrected temperature *35.8*Air *48* Surface *44*

Drift —

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8</i>		0		
		100		
		200		
		300		
		400		
		500		
<i>11</i>		600		
<i>12</i>		700		
	<i>24.37</i>	800		
	<i>24.58</i>	900		
	<i>25.18</i>	1000		
	<i>25.38</i>	1100		
	<i>25.58</i>	1200		
	<i>26.18</i>	1300		
	<i>26.38</i>	1400		
	<i>26.58</i>	1500		
	<i>27.18</i>	<i>1512</i>		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4520	80	1512
50		1512	93	113
100		3325	115	1512
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Lat.  $51^{\circ} 11'$   
 Long.  $176^{\circ} 25'$

No. 3262 Hy. - Date July 26  
 Machine. Reel. No. 12

Turns 2200 Cor. + 1.50 Depth 2250

Shot or lead 60 lb

Bottom gy. s. m. s.

Bottom temperature 37.3

No. of thermometer 66613 Cor. -0.4

Corrected temperature 36.9

Air 52 Surface 44 Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11-3.35	58.56	0		
4.40	57.13	100		
5.40	56.13	200		
6.40	55.18	300		
7.38	54.52	400		
8.33	53.58	500		
9.37	53.00	600		
10.38	52.02	700		
11.40	50.56	800		
12.47	49.13	900		
13.53	48.27	1000		
15.06	47.08	1100		
16.18	45.42	1200		
17.28	44.17	1300		
18.41	42.50	1400		
19.58	41.26	1500		
21.19	40.01	1600		
22.45	38.45	1700		
24.08	37.28	1800		
25.32	36.00	1900		
26.54	34.31	2000		
28.26	33.10	2100		
29.55	31.55	(2200)		
		2300		
		2400		

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4820	1.5	2.0
50		2220	1.5	2.0
100		2220	1.5	2.0
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

51° 00' N. 176° 04' W.

No. 3012 Date July 19 1890

Machine. Reel.

Turns 1905 Cor. + 134

Depth 2039 fms.

Shot on lead 60 lbs.

Bottom gy. m. s.

Bottom temperature 37.7

No. of thermometer 66663 Cor. -0.4

Corrected temperature 37.3

Air 52° Surface 44° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2-12-00	54-45	0		
12-45	53-10	100		
13-30	52-15	200		
14-15	51-20	300		
15-00	50-20	400		
16-00	49-30	500		
17-00	48-30	600		
18-00	47-30	700		
19-00	46-30	800		
20-00	45-30	900		
21-00	44-35	1000		
22-15	43-40	1100		
23-25	42-45	1200		
24-35	41-45	1300		
25-45	40-50	1400		
26-50	39-35	1500		
27-55	38-40	1600		
29-15	37-00	1700		
30-30	36-05	1800		
31-50	34-30	1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4820	23	1425
50		19 05	64	1341
100		29 15	134	2039
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS;

50° 41' N, 175° 30' W.

No. 3264 Date

Machine. Reel.

Turns 3140 Cor. + 183 Depth 3323

Shot or lead 60 lbs.

Bottom gy. m. &amp; s

Bottom temperature 40

No. of thermometer 666 Cor. -1.4

Corrected temperature 39.6

Air 49 Surface 48 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
37-11	6-11	0		
		100		
		200		
	7-55	300		
	7-15	400		
		500		
	10	600		
	8-05	700		
36	50	800		
37-10	51-25	900		
38-25	52-20	1000		
39-35	53-45	1100		
40-35	54-25	1200		
42-10	55-17	1300		
43-35	56-25	1400		
44-55	57-10	1500		
46-15	58-05	1600		
47-45	59-20	1700		
49-15	60-50	1800		
50-50	61-45	1900		
52-25	62-20	2000		
53-55	63-15	2100		
55-30	64-55	2200		
57-10	65-25	2300		
58-55	67-40	2400		

111

1-0	2500
02-15	2600
04-30	2700
06-20	2800
08-15	2900
10-20	3000
12-30	3100
14-45	3200
17-18-20	3300
	3400
	3500
	3600
	3700
	3800
	3900
	4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		1620		
50		1120		
100		1680	183	
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS: 6,2 4,40  
7,1 4,41  
,471 05  
60  
242 5-

Lat.  $50^{\circ} 28' 31.175''$  Long.  $10^{\circ} 7'$

No. 3265 Date *July 15*  
 Machine. Reel.  
 Turns 550 Cor. + 177 Depth 4002  
 Shot or lead 60 lbs  
 Bottom *br. Oz.*  
 Bottom temperature 35  
 No. of thermometer 66663 Cor. - 0.4  
 Corrected temperature 34.6  
 Air 50 Surface 49 Drift —  
 Trawl or dredge

# SOUNDING WIRE.

DOWN.

UP.

TURNS.

# DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
1.17	12.18.50	0		
1.18	12.19.05	100		
1.19	12.19.20	200		
1.20	12.19.35	300		
1.21	12.19.50	400		
1.22	12.20.05	500		
1.23	12.20.20	600		
1.24	12.20.35	700		
1.25	12.20.50	800		
1.26	12.21.05	900		
1.27	12.21.20	1000		
1.28	12.21.35	1100		
1.29	12.21.50	1200		
1.30	12.22.05	1300		
1.31	12.22.20	1400		
1.32	12.22.35	1500		
1.33	12.22.50	1600		
1.34	12.23.05	1700		
1.35	12.23.20	1800		
1.36	12.23.35	1900		
1.37	12.23.50	2000		
1.38	12.24.05	2100		
1.39	12.24.20	2200		
1.40	12.24.35	2300		
1.41	12.24.50	2400		

*P. Log. 01.1*

*Distance down 1000 fms.*



1.27	1.31	2500
1.30	1.31	2600
1.36	1.31	2700
1.27	1.31	2800
1.20	1.31	2900
1.11	1.35	3000
1.31	1.41	3100
1.42	1.45	3200
1.42	1.44	3300
1.40	2.13	3400
1.41	2.13	3500
1.32	2.13	3600
1.03	11.13	3700
2.07	2.16	3800
		3900
		4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS

102 41.2 112.3 75

11.1 5.3 5.12.1 8.5

5.5 11.1 5.6 2.5

10.5

50° 16' N. 174° 51' W.

507.

No. 2244 Date July 7, 1893

Sigsbee Machine. 2 Reel. 5000

Turns 181 Cor. + Depth 3191

Shot or lead 60 lbs.

Bottom

Bottom temperature

No. of thermometer 66663 Cor. —

Corrected temperature

Air 58° Surface 78° Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2-42-00	55-00	0
44-40	52-10	100
45-30	51-15	200
46-10	50-30	300
47-00	49-45	400
47-50	48-55	500
48-15	48-00	600
49-45	47-05	700
50-45	46-10	800
51-45	45-10	900
52-45	44-05	1000
53-50	43-20	1100
54-55	42-25	1200
56-05	41-30	1300
57-15	40-30	1400
58-25	39-45	1500
59-40	38-55	1600
3-00-50	38-00	1700
02-05	37-10	1800
03-20	36-15	1900
04-35	35-15	2000
05-50	34-15	2100
07-15	33-15	2200
08-30	32-15	2300
1-10-00	3-31-00	2400

Net log used - 21.9

Middle 1 1/2 knots on engine when pulling

1881.

3-11-15	28-30	2500	
12-18	27-15	2600	
14-15	26-00	2700	
15-10	24-45	2800	
17-10	23-30	2900	
18-50	22-00	3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4400	702	50.90
50		3211	900	50.10
100		1810	1.81	50.40
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Thermometer and bottle  
 at 25 fms. dropped and  
 & sealed in bottle when  
 pulled at ship. In case  
 thermometer & bottle  
 & bottle broken.

50° 03' N. 174° 30' W.

No. *2211* Date *Oct 2 1881*

*Sigsbee* Machine. *2* Reel. *Heavy*

Turns *280* Cor. + *60 lbs.* Depth *280 fms*

Shot ~~or lead~~ *60 lbs.*

Bottom *gy. Oz.*

Bottom temperature *50*

No. of thermometer *57* Cor. *-*

Corrected temperature *38.10*

Air *50* Surface *49* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>22-35</i>	<i>27-40</i>	0		
<i>33-50</i>		100		
		200		
		300		
		400		
		500		
		600		
<i>27-40</i>	<i>27-40</i>	700		
		800		
		900		
<i>33-10</i>		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
<i>27-45</i>	<i>27-45</i>	1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

#### SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

#### REMARKS:

Lost a specimen cup and bottle  
 shot just before starting.  
 Went on new ones.

128 Cont! Next page

No. \_\_\_\_\_ Date \_\_\_\_\_  
 Machine. \_\_\_\_\_ Reel. \_\_\_\_\_

Turns \_\_\_\_\_ Cor. + \_\_\_\_\_ Depth \_\_\_\_\_

Shot or lead 60 lbs

Bottom \_\_\_\_\_

Bottom temperature \_\_\_\_\_

No. of thermometer 61752 Cor. \_\_\_\_\_

Corrected temperature \_\_\_\_\_

Air \_\_\_\_\_ Surface \_\_\_\_\_ Drift \_\_\_\_\_

Trawl or dredge \_\_\_\_\_

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
31.48		1100		
34.15		1200		
36.48		1300		
39.18		1400		
40.34		1500		
41.52		1600		
43.08		1700		
44.26		1800		
45.43		1900		
46.00		2000		
46.57		2100		
47.43		2200		
48.00		2300		
48.50		2400		

3477 fathoms

12.51.58	2500
53.26	2600
54.35	2700
55.28	2800
56.01	2900
59.32	3000
1.01.13	3100
02.57	3200
04.06	329.5
	3300
	3400
	3500
	3600
	3700
	3800
	3900
	4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		1795	200	1595
50		1795	16	1780
100		1795	184	1611
200				
300				
400				
500				
600				
700				
800				
900				
1000				

## REMARKS:

Wine fortified, and lost 34T)  
 1 no. 1000, N. 42. 100000  
 #61752, and 200000  
 100000

Fixed up reel again from  
 previous at 100000

S.S. 50° 31' N  
 173° 54' W.  
 No. 3268 Hy. Date July 7 1883  
 Sigsbee Machine. #2 Reel. Wavy.  
 Turns 3480 Cor. + 187 Depth 3667 fms  
 Shot or lead 60 lbs.  
 Bottom Sand bottom.  
 Bottom temperature \_\_\_\_\_  
 No. of thermometer \_\_\_\_\_ Cor. \_\_\_\_\_  
 Corrected temperature \_\_\_\_\_  
 Air 53° Surface 49° Drift \_\_\_\_\_  
 Trawl or dredge \_\_\_\_\_

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.54.52.00		0		
11.55.50.40		100		
11.56.50.00		200		
11.57.47.20		300		
11.58.48.40		400		
11.59.47.50		500		
12.00.47.05		600		
12.01.46.30		700		
12.02.45.30		800		
12.03.44.35		900		
12.04.43.40		1000		
12.05.42.45		1100		
12.06.41.45		1200		
12.07.40.45		1300		
12.08.39.40		1400		
12.09.38.35		1500		
12.10.37.30		1600		
12.11.36.20		1700		
12.12.35.10		1800		
12.13.34.00		1900		
12.14.32.45		2000		
12.15.31.45		2100		
12.16.30.30		2200		
12.17.29.15		2300		
12.18.28.00		2400		

P.T. 84.4.  
 Water 410. Trawl hauled in - on surface



*P.M.*

4-26-30	2500
25-50	2600
23-30	2700
22-50	2800
20-30	2900
19-15	3000
17-30	3100
16-50	3200
14-30	3300
13-00	3400
11-11-15	3480
	3500
	3600
	3700
	3800
	3900
	4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4-170	179	3460
50		3480	12	187
100		1510	187	3667
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Hard bottom; nothing but clean  
material sp. in it. Bottom  
and of it dented

50° 57' N. 173° 06' W.

No. 3269 Date 11/4/93

Machine. 2 Reel. 7th

Turns 3605 Cor. + 189

Depth 3794

Shot or lead 60 lbs

Bottom br. Oz. S.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 49 Surface 48 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
00-00		0		
01-00		100		
02-00		200		
03-00		300		
04-00		400		
05-00		500		
06-00		600		
07-00		700		
08-00		800		
09-00		900		
10-00		1000		
11-00		1100		
12-00		1200		
13-00		1300		
14-00		1400		
15-00		1500		
16-00		1600		
17-00		1700		
18-00		1800		
19-00		1900		
20-00		2000		
21-00		2100		
22-00		2200		
23-00		2300		
24-00		2400		

10-30-15	10-30	2500	
33-30-	10-30	2600	
37-30	10-30	2700	
38-30	10-30	2800	
41-30	10-30	2900	
42-30	10-30	3000	
44	10-30	3100	
45-30	10-30	3200	
47-30	10-30	3300	
49-30	10-30	3400	
51-30	10-30	3500	
53-30	10-30	3600	
		3700	
		3800	
		3900	
		4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		14740	1.0	30.15
50		3665	1.0	30.15
100		1185	1.0	30.15
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

51° 23' N. 172° 18' W.

No. 2270 Hyd. Date July 8/93  
Machine. Reel.

Turns 2172 Cor. + 49 Depth 2221

Shot or lead 60 lb

Bottom ~~fine~~ S.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 50 Surface 49 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

3.47	46.37	0	
4.15	45.23	100	
5.01	44.31	200	
5.51	43.33	300	
6.44	42.40	400	
7.40	41.32	500	
8.37	40.29	600	
9.34	39.23	700	
10.34	38.19	800	
11.37	37.14	900	
12.40	36.08	1000	
13.47	35.13	1100	
14.52	34.09	1200	
15.52	33.05	1300	
16.57	32.12	1400	
17.53	31.30	1500	
18.57	30.20	1600	
19.53	29.27	1700	
20.53	28.48	1800	
21.54	27.30	1900	
22.59	26.12	2000	
23.57	25.05	2100	
24.44	24.00	2200	
		2300	
		2400	

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4790	1.8	4791.8
50		2630	1.8	2631.8
100		2630	1.8	2631.8
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1507. 10° 50' N. 171° 38' W.

No. 5271 Hyd. Date

Machine. 2 Reel. 714.

Turns 1239 Cor. + 91

Depth 1330 fms.

Shot or lead

Bottom fm. bk. S.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 49

Surface 48

Drift

Trawl or dredge

SOUNDING WIRE		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
02-30	25-00	0	full spud 9.9	
03-20	26-50	100		
04-15	26-20	200		
05-15	25-45	300		
06-10	25-10	400		
07-10	24-20	500		
08-10	23-30	600		
09-15	22-40	700		
10-15	21-45	800		
11-20	20-50	900		
12-30	19-55	1000		
13-45	19-00	1100		
14-50	17-50	1200		
15-30	9-17-15	1300	Made 6/10 hrs. on 5 min.	
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4790	129	1239
50		1239	108	91
100		3551	91	1520
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

52° 06' N. 171° 45' W.

No. 3480 Date July 8<sup>th</sup> 1893

Sigsbee Machine. #2 Reel. Grand.

Turns 262 Cor. + 21 Depth 283 fms -

Shot or lead 35 lbs.

Bottom bk. S. Co. Thy.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 50° Surface 47° Drift —

Trawl or dredge Large Beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11-02-30	17-30	0	11-11-00	1-10
03-45	14-45	100	17-30	14-45
04-40	12-00	200	21-00	11-55
05-15	11-10-30	300	24-00	12-01-45
		400	40-00	11-54-50
		500	44-00	11-54-00
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Set clock ahead  
13 minutes.

Ret. Log - 24.7 -



2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4790	199	262
50		262	178	
100		4528	21	262
200				
300				
400				
500				
600				
700	Cut 880	264 turns	wire = 285 fms.	
800				
900				
1000				

## REMARKS:

At 262 fms wire jumped reel -  
getting bottom same time.

Large brown branching coral, - 3 sp.  
Sponges, hydroids, 2 gts red sponges  
3 sp, few aphirans 1 alcyonarian  
fishes, 2 sculpins, 3 Caracanthus  
few small star, 2 Anastrophyton  
1 basket in a cl.

7114. 52° 15' N. 171° 40' W.

No. 0481 Date May 10 1880

Machine. S Reel.

Turns 230 Cor. + 18 Depth 248 fms

Shot or lead 35 lbs

Bottom bk S. G.

Bottom temperature

No. of thermometer — Cor.

Corrected temperature —

Air 57 Surface 48 Drift —

Trawl or dredge 8 ft 12 min 2 hauls

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

21-30	36-30	0	1-46-30	31-30
22-30	35-15	100	46-30	25-20
31-30	34-15	200	49-50	1-10
31-50	1-32-30	300	53-10	18
		400	55	18-1
		500	2-00-20	08-5
		530	02-20	2-46-4
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4526	175	221
50		230	100	22
100		4276	13	216
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

Trawl loaded with volcanic sand  
and gravel.  
9 small shells - 2 sp.  
2 worms.

52° 24' N. 171° 40' W.

No. 3272 *Hyd* Date *18/8*

Machine. Reel.

Turns 242 Cor. + 8 Depth 250

Shot or lead 26 lbs

Bottom *shy*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 48 Surface 44 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
	4:45	0		
10-45	1:00	100		
11-30	12-30	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		585	0	
50		292	5	
100		153	5	2.3
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

188  
507.

N 52° 31'  
W 171° 42'

No. 3273. Hyd. Date July 8/93  
Machine. Reel.

Turns 310 Cor. + 10 Depth 320

Shot or lead 26 lb

Bottom fine g.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 47 Surface 41 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
54.59		0		
57.03	55.10	100		
58.13		200		
	56.04	300		
59.22	4.59.15	400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

No. 240 water reel in

56.5

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		286	1.5	287.5
50		286	1.5	287.5
100		286	1.5	287.5
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns 89 Cor. + 8

Depth

Shot or lead 35 lb

Bottom O o d l d

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 46 Surface 41

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

5.44.25  
6.47.18

5.41.10  
6.47.35

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400



	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

52° 54' N

No. 3275 Date July 8/93  
Machine. Reel. Navy #2  
Turns 343 Cor. + 26 Depth 369 fms  
Shot or lead 35 lb  
Bottom fine bk  
Bottom temperature  
No. of thermometer Cor.  
Corrected temperature  
Air 45 Surface 48 Drift —  
Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
7-52-10	10-10	0		
7-54	26-56	100		
58	30-45	200		
57-40	34-26	300		
8-00-10	8-04	343		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4526	1.78	54.3
50		343	1.55	55.5
100		4183	2.6	56.9
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

55° 04' N. 170° 11' W.

No. 3276 Date *May 7 1891*  
*Sigsbee* Machine. #2 Reel. *Hand*

Turns *1454* Cor. + *100* Depth *1554 fms.*

Shot or lead *35 lbs.*

Bottom *gn. M. S.*

Bottom temperature *—*

No. of thermometer *—* Cor. *—*

Corrected temperature *—*

Air *49* Surface *46* Drift *—*

Trawl or dredge *—*

SOUNDING WIRE		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11-06-11</i>	<i>11-53-00</i>	0	<i>Full speed 11:55</i>	
<i>11-50</i>	<i>51-30</i>	100		
<i>07-55</i>	<i>50-45</i>	200		
<i>09-00</i>	<i>49-55</i>	300		
<i>10-10</i>	<i>49-00</i>	400		
<i>11-20</i>	<i>48-00</i>	500		
<i>12-40</i>	<i>47-00</i>	600		
<i>14-00</i>	<i>45-45</i>	700		
<i>21-40</i>	<i>44-30</i>	800	<i>770 Wire jumped</i>	
<i>23-30</i>	<i>43-00</i>	900	<i>reel -</i>	
<i>25-00</i>	<i>41-30</i>	1000		
<i>26-45</i>	<i>40-50</i>	1100		
<i>28-45</i>	<i>38-30</i>	1200	<i>Stop</i>	
<i>30-45</i>	<i>37-15</i>	1300		
<i>32-30</i>	<i>36-00</i>	1400		
<i>33-30</i>	<i>11-35-20</i>	<i>1454</i> <i>1500</i>		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*30.00*  
*Make 12/10 Reeling in*

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4526	178	1454
50		1454	78	100
100		3072	100	1554
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Brought out back -

No. 3277 Date July 9 1885

Machine. Reel.

Turns 1522 Cor. + 104 Depth 1626 fms.

Shot or lead 35 lbs.

Bottom gn. M.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 19 Surface 47

Drift 2 1/2 m S. 1/2 E.

Trawl or dredge

## SOUNDING WIRE.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

57-00	3-52-30	100
58-20	51-10	100
01-15	50-20	200
	49-30	300
05-15	48-35	400
07-00	47-35	500
09-15	46-45	600
11-00	45-45	700
12-40	44-45	800
14-15	43-30	900
16-15	42-15	1000
18-10	41-00	1100
20-00	39-45	1200
	38-15	1300
	36-45	1400
25-45	35-20	1500
26-15	3-35-00	1600

1700

1800

1900

2000

2100

2200

2300

2400

Log over

Pat Log 64.0 -

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		4526	178	1522
50		1522	74	104
100		3004	104	1626
200				
300				
400				
500				
600				
700				
800				
900				
1000				

# REMARKS:

Spent 9 minutes in vain  
attempt to detach shot-

Lat. 56° 06' N. 169° 58' W.

No. 3278 Hyd Date July 9, 1893

Machine. 2 Reel. 11.0.0.

Turns 63 Cor. + 5 Depth 68

Shot or lead 36 lbs

Bottom gy S

Bottom temperature

No. of thermometer — Cor.

Corrected temperature

Air 48 Surface 47 Drift —

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
1.00		0		
6.45.00		100		
50		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		6		
50		63	173	
100		63	5	
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 3274 Date

Sigsbee Machine. Reel.

Turns Cor. + Depth

Shot or lead 36 lbs

Bottom gy S &amp; bk shreds

Bottom temperature

No. of thermometer - Cor.

Corrected temperature

Air 48 Surface 47 Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

10

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		525	13	69
50		69	10	3
100		516	3	72
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

607. *W.R.* 56° 35' N. 169° 55' W.

No. *3280 Hyd* Date *July 9/93*  
*Tanner* Machine. Reel.

Turns *50* Cor. + *2* Depth *52*

Shot or lead *36 lbs.*

Bottom *Rky & S.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *48*

Surface *47*

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>9.46.30</i>	<i>9.48.30</i>	(50)		
<i>47.02</i>	<i>9.47.50</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*0.40.25.2*

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

# SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		585	13	50
50		50	11	2
100		535	2	52
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

57° 18' N. 169° 38' W.

No. 3281 Hyd. - Date July 12<sup>th</sup> 1893.  
Tanner Machine. - Reel.

Turns 34 Cor. + 1

Depth 35 fms.

~~Shot or lead~~ 25 lbs.

Bottom gy. S. Sh.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 42° Surface 42° Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

4-20-00

4-22-00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400